

## **CODING OF MOTION VECTOR INFORMATION**

### **ABSTRACT**

Techniques and tools for encoding and decoding motion vector information for  
5 video images are described. For example, a video encoder yields an extended motion  
vector code by jointly coding, for a set of pixels, a switch code, motion vector  
information, and a terminal symbol indicating whether subsequent data is encoded for  
the set of pixels. In another aspect, an encoder/decoder selects motion vector  
predictors for macroblocks. In another aspect, a video encoder/decoder uses hybrid  
10 motion vector prediction. In another aspect, a video encoder/decoder signals a motion  
vector mode for a predicted image. In another aspect, a video decoder decodes a set  
of pixels by receiving an extended motion vector code, which reflects joint encoding of  
motion information together with intra/inter-coding information and a terminal symbol.  
The decoder determines whether subsequent data exists for the set of pixels based on  
15 e.g., the terminal symbol.